Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

- 1. (Currently Amended) <u>A recombinant C1</u> inhibitor which is characterised in that its plasma circulatory half-life has been changed by modification of an O-linked carbohydrate, wherein the modification has been carried out by *in vitro* incubation with an enzyme preparation comprising one or more O-linked carbohydrate modifying enzymes or *in vivo* by co-expression of the C1 inhibitor with one or more O-linked carbohydrate modifying enzymes in a cell line or a non-human transgenic animal.
- 2. (Currently Amended) <u>A recombinant C1</u> inhibitor according to claim 1, which is characterised in that its plasma circulatory half-life has been extended compared to the half-life of an unmodified C1 inhibitor.
- 3. (Currently Amended) <u>A recombinant C1</u> inhibitor according to claim l, which is characterised in that its plasma circulatory half-life has been reduced compared to the half-life of an unmodified C1 inhibitor.
- 4. (Currently Amended) A recombinant C1 inhibitor according to claim 1, which is characterised in that the plasma circulatory half-life of the modified inhibitor has decreased as compared to, [[with]] or increased to at least 1.5, 2, 3 or 4 times the value of, the half-life of the [[-]]_unmodified inhibitor.
- 5. (Currently Amended) <u>A recombinant C1</u> inhibitor according to claim 1, which is characterised in that the modification comprises sialylation of the O-linked carbohydrate or the removal of one or more non-sialylated O-linked carbohydrates.
- 6. (Currently Amended) <u>A recombinant C1</u> inhibitor according to claim 5, which is characterised in that the non-sialylated O-linked carbohydrate is galactose or Gal(β1-3)GalNAc.

- 7. (Currently Amended) <u>A recombinant C1 inhibitor according to claim 1</u>, which elaim—I is characterised in that the O-linked carbohydrate is modified by incubation with an enzyme preparation which comprises one or more <u>O-linked carbohydrate modifying enzymes</u>.
- 8. (Currently Amended) <u>A recombinant C1</u> inhibitor according to claim 7, which is characterised in that the enzyme preparation comprises one or more sialyltransferases, galactosidases or endo-acetyl-galactosaminidases.
- 9. (Currently Amended) <u>A recombinant C1</u> inhibitor according to claim 8, which is characterised in that the enzyme preparation comprises sialyltransferases ST3Gal III and ST3Gal I, or endo-α-N-acetyl-galactosaminidase.
- 10. (Currently Amended) <u>A recombinant C1</u> inhibitor according to claim 1, which is characterised in that the modification is an *in vitro* modification.
- 11. (Currently Amended) <u>A recombinant C1</u> inhibitor according to claim 1, which is characterised in that the C1 inhibitor is human C1 inhibitor.
 - 12. (Canceled)
- 13. (Currently Amended) A pharmaceutical composition comprising a recombinant C1 inhibitor according to claim 1.

14-15. (Canceled)

16. (Currently Amended) A method for extending the blood circulatory half-life of a glycoprotein or of a glycoprotein comprising compound, wherein the method comprises removing one or more non-sialylated O-linked carbohydrates from the glycoprotein, wherein the one or more non-sialylated O-linked carbohydrate is removed by in vitro incubation with an enzyme preparation comprising one or more enzymes capable of removing the one or more non-sialylated O-linked carbohydrates or in vivo by co-expression of the glycoprotein with one or more enzymes capable of removing the one or more non-sialylated O-linked carbohydrates in a cell line or a non-human transgenic animal.

- 17. (Currently Amended) The method according to claim 16, wherein the non-sialylated carbohydrate is galactose or $Gal(\beta 1-3)GalNAc$.
- 18. (Currently Amended) The method according to claim 16, wherein the <u>one</u> or <u>more non-sialylated O-linked</u> carbohydrates <u>is-are</u> removed by *in vitro* incubation with an enzyme preparation comprising one or more enzymes <u>capable of removing the one or more non-sialylated O-linked carbohydrates</u>.
- 19. (Original) The method according to claim 18, wherein the enzyme preparation comprises galactosidase or endo-acetylgalactosaminidase.
- 20. (Currently Amended) The method according to claim 18, wherein the enzyme preparation comprises one or more recombinantly produced enzymes.
- 21. (Currently Amended) The method according to claim 16, wherein the <u>one</u> or more non-sialylated O-linked carbohydrates <u>is are</u> removed *in vivo* by <u>co-expression of the glycoprotein with a nucleic acid encoding a galactosidase or an endo-acetylgalaotosaminidase in a cell line or in a non-human transgenic animal.</u>
- 22. (Currently Amended) The method according to claim 16, wherein the glycoprotein is a C1 inhibitor.